Only AFTERBURNER vs THUNDERBLADE - our verdict page 12

SCOMPUTER

STATE OF THE STATE O



• Has this man paid £6m to IBM?

Secret Konix console plans leaked

REVEALED

Amiga
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CPC
MSX
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PCW
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ssue 2 • Nov 19,1988

the best value computer in Britain



Aperfect wordprocessor?

The dream comes true — page 39



A guide for beginners – page 35

First review of the remarkable TOTAL ECLIPSE - appr 32

EXCLUSIVE

Charts 4 · Letters 11 · Questionnaire 23 · Entertainment 25-33 · Beginners 35 · Tips 36 · Columns 46 · PSsst! 62

Acorn last week fired a warning shot across saftware publishers' hows - any grams developed for the new RSC EEC Show held at the weekend. Acom were keeping an eye out for exhibitors

lishers have seen and been trained on not to show off any work thus far That will seek soril the new RESC. Archimedes users will be able to buy

the chips for £29. New batches of the machine will be fitted with the all signed non-disclosure agreements. not to follow the rules may find that



Coin-op Freescape Incentive is currently talking to possibility of building a coin-op

DRILLER incredible experi bel sace". CANAL Y

EXPRESS

New machine will have 3-inch drive

KONIX CONSOLE LIN TO EX-SINCLAIR TEAM

The secret new sub £150 consol perplatinary Place micro. New Conspicter Express can also reveal the console will include a 2 inch

they no longer have access to software

· Holloway: Irritated be leaks and reports

Place director John Matherion

Whatever, Ecrix is been for the

Konix: the leaked spec

PERCE: And below \$150 LAUNCH: Due to be amnounced in February or March, it DESIGN "Can you imagine a conselle inside a jayatish?"

offered one observer. Well, so not really. But the Kenty NAME: Internally it is known as Slipstream, though this is

Would you credit it?

being eates and informed the Judge Tim Lewrence describe "buying equipment with which it is possible to clone or copy these The two men and their wives then emberked on a explorier

Cliff hits the fire button

PC prices fall as chip prospects brighten

Enson has looped \$50 off its vetry

Talking Japanese

down to increased demand among The firm hopes to pitch home users

er les Phipps commented: 'The D-Ram entry level PCo... Those problems new

closes. And Atan has brought forward obtaining substantial batches of the



hardware manufacturers have been

ROW HITS ATARI SHOW

According to Database, US Gold, "You have introduced unfair competi. Express the whole story was 'abec

BORLAND SEES RED

Business software plant Bortand was last week attempting to soften the blow there had been "mistakes". He added Though prices have yet to be ascer-

months of this year. That compares to

character Philippe Kalm admitted that Bortand joins a long list of firms which

ceter market. They include Sinclais



COMPUTER

I'm Big, Matey

happening all around you. memory chips. For months now the teet.) And because you're IBM, all

> buyers, most software and add-on ter jump on the IBM bandyagon support forces other manufacturers

page 4 - suggest you do. Compute

Budget rethink

For two years not all the evidence Codemisters itself has screamed

slightly exagerrated?

EDITOR Peter Worker - NEWS EDITOR Color WRITER RIR Hanney - PRODUCTION SOUTH Ray Lawton-AFT EDTOR Auto O'Shoo-ADVERTISE MOVE MANUFACE WAY Salmon - NO EXECUTIVES TWO Terry Turner - P.B.US-ER Gree Instrum Februs Publishing Ltd - 4 Queen St. Berb. BA1 18J - No. 0001 668036 - Fax: 0005 660018

Shoot from the Lip.

Erasable CDs:

AMSTRAD'S

ROYALT SECRET

Magnetic optic cloks will be the future of on the motion for his new MeXT content

The disks reportedly resemble CDs

The writing, reading and erasable fun-



Filofax deluge

Business software developer Paperon databases to direct at PC awaing yappies. These will be compatible with

The organiser program itself is a

depending on how many extra bits . (Kal Paperback from your car-phone on claimed that Ametrad paid out

The race against crime

For those wasting more than the pet bardware it might be worth investing in Rememural has come up with a device which sounds off a din if a connected

Express: "We have never con- Sugar 15 million pay out"

A new image The programmers of System 3's Lost

Declaring war on sexist software



. GASIS is on GC 542 7260



ARKEL BREAK THE PRICE BARRIER!





NETWORK NIGHTMARE

Codemasters ps prices 50%

FOR SAGE



. David Darling: another guid each for these

line brothers - has upped the prices of

ploughed back into game development

paying the extra because 'the cames It would appear that the success of

software booses are settling on £3 as the ideal budget price with 62 games

other being reparted as the poer new Codemasters \$1.99 games are

make much difference

Beam me over a

prawn cocktail

ers can punch enders into a handheld pad

to table without having to deposit orders

US Gold will be making its first sortic the end of next menth. Gold will be petting out the highly passed Joan of

. More into from Sage on 090 284 7077

Joan of Archimedes

mented marketing manager Bruce Smart meet Codemastery' success over the past two years has been predominantly

based on cheap names which sell esceptionally well to the younger gamers. 'Our games deserve to be \$2.90," invisced Everiss, "Inferior peoan approprienced by Codemasters of full price labels. The old Plus label of that its titles now cost 68-69. And Appalling PR Howeau publisher Software

Oragonscape for the ST and Amiga is, according to Horizons, based on a 17th Century children's game ages to come up with the name of the game before to gual' the bubbly.

Driving forces

Footbal Manager 2

Feotballer Of The Year

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The Best just got Better!

Deupac Amiga has always been the popular choice for assembly language programming on your commonder Amiga. When it passed its second britiday we took a fresh look at it and realised there were for things it didn't do that we, and you, wanted it to. So were rewords both the assembler and debugger totally from scratch, allowing us to add features that were not possible in the original versions. We then substantially improved the ection as well to give us are unbeatable combination of features: see the table.

The Editor - true integration

The fast editor is based on the original but with extras like highlighting, a file requestor and the ability to make back your source files. The assembler and debugger are both as:

The Assembler - no waiting zone GenAM was always fast but the all-new algorithms means it's

even faster, particularly on larger programs. It handles multihunk code, 127-character significant labels, local labels, improved macros & conditionals, generates directly executable, or linkable code, and a stand-alone version is included so you can

The Debugger - kills bugs, dead How many times do you write a completely bug-free program?

Trying to debug a program by looking at gura numbers as what some development systems knew you to do. We trichide a disassembler/meetine/selection

Ideal for Beginners & Enthusiasts

The editor is fast and easy to use, you can assemble from memory to memory then execute it repeatedly to by your felos out, all without a disk access. Press a key and your restright into the without a disk access. Press a key and your restright into the without the present of the programs assembled to memory with heir ordinary and the present of the present that the present the programs stemediately can, generate directly executable programs immediately interested in heiding somebody these socie, such as the ROM?—with the debugger your can disassemble to disk with automatic likels, including system calls. All programs will work on a 60-likels, including system calls. All programs will work on a 50-likels, including system calls. All programs will work on a 60-likels, including system calls.

Ideal for Professionals

If you're not using Devpac for software development then you'd better hope that your rivals aren't either. Why wait for your editor to load a file or for your assembler to churn through it - GenAM

Ideal for You

Just compare the specification with any other product and we're sure you'll agree

Devpac Amiga 2 - There is No Competition

TT: CA The Old School, Greenfield.



Old School, Greenfield Bedford MK45 5DE

Screen Editor	Y	Y	N	-
Handles tabs as single chars	Y	N	N	- 2
Step through assembly errors	Y	N	N	7 7 7
Automatic backups	N	Y	N	
Integrated assembler	Y	N		-
Integrated debugger	N	N	Y	1
Macro parameters	10	10	9	3
Multi-line macro calls	79	N	N	
Conditional assembly	Y		Y	
Case flexible	Y	Y	N	
Local labels	N	Y	N	
Executable, relocatable code	YYN	N	Y	
Linkable code	Y	Y	N	-
Multi-SECTIONs	N	Y	N	
INCLUDE binary files	N	N	N	
Assemble to memory	N		Y	
Stand-alone assembler	Ÿ	Y	N	
Section types	Ŷ	N	N	3
Debugger supplied	Y	N	Y	
Disassembler	Y	N	Y	
Multi-window	N	n/a	N	
Source-code viewing	N	n/a		
Single-step	Y	n/a	Ŷ	

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EXPRESS

THE LASER IS WORTH IT

Don Griffith, Hammersmith, London

HUMBHUM . MSX

YES. HE'S BONKERS

magazines have started off as a balanced reix of techni-Yes, Alan Sugar is completely bookers for doing to

Tarnus). 3. The article on PC graphics was great. However, i

it goes, but no amount of reversping will ever make up 5. GEM does some whizzo things, but it's still a pain 6. Why was half of the SPEX column devoted to a single



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ROM: Read Only Memory', Con-BYTE: The basic measure of mem-

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SBT/16-RIT: Describes narting far types of central processors

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. One of the largest selections of games suftware for any micra. · Games software is very cheep - moging from soproximately G . Majority of names titles released on Sopotous bound.

Software Disadvantages . The range of software is, on the whole, limited to cames models, i.e. many games titles only use 40k of RAM.

Despite the increasing popularity of 15-bit markines, the Spec-

The Spectrum is still a great little machine for first-time buyers

Commodore 64

What you get CS4C, C2N tape deck, invitid What you get OHC, C2N tape deck, joystick,

. Dedicated graphics hardware facilities for sprices and acrolling-

Hardware Disadvantages . Tape deck is very slow - fortunately software companies now . Limited colour range - maximum of 4 minum within any Bell Dates the maximum of colours places restrictions on graphics

. Software not only produced in the UK, but USA and Germany as

· BASIC expelled is the worst on any micro

What does the future hold? As with the other 8-bits, the CSA is starting to look a bit detect

Who is it for? For most entertainment usage, the OSA easily surpasses the S-bit.

* The Ametrad CPC packages costain the higgest selection of Built in tape deck or disk drive as standard. . Best 5-bit colour range - max 36 on screen out of a paintse of 27.

• Tape dock is only reasonably fast and reliable. · Dring maximum range of colours produces a similar effect to

. Extended colour palette can produce the most colourful 8-bit cetamine a games selection as the Spectrum or CSA

. Many software companies now declare CPC sales of their prod problems than their absence in the Spectrum - with CPC games

Of the 8-bit machines mentioned in this survey, the CPC is the one likely to lose most software support over the next two years -

The CDC markings offer the best value for money - on a hardware

WHICH COMPUTER?

PROS AND CONS

Atari ST

What you get Computer with disk drive + mouse What you get Al the above, olus jointick, 21



• Fast Myramia 68000 15-bit CPU. · Bulls in disk drive. . Good screen resolution - bigh res-\$40x400 imosel, median

· MEI port as standard.

* Lock of dedicated crephics hardware for applies and appoll

· Built-in, easy to use, WMF environment · Built is MEE port has prempted software companies to produce

. Software in very expensive - games tides range from £10 to £25 . Venion of SASIC supplied is tentble - entremely slow, difficult

Amigs. There should be a steady increase in games software sup-

The ST is a wooderful combination of high-conver and low price. It

Commodore Amiga

Fast Motorda 60000 16-bit CPU

Enilizat acrees resolution - a meriad of different arress modes.

Has the option for a Centrolk device which allows you to min

. Growing range of games, opportunities and opposite surbysaw

Good version of BASIC supplied

· Software is very expensive - typically CIS for a game . Most cames titles, when converted over from other machines.

s WMP professment and countries makes are very surfaced



ically The Amiga has achieved cult status among software designers around the

The Amiga was originally designed as, and currently is, the ubb

What you get 600% computer with single 6.25' MODEL Ametrid PC 16400D CGA + 0919 What you get 640K computer with twin disk

. 640K of RAM enough for many business needs · Ready expandability through standard internal expansion

. Chapper versions limited to mone-display CGA display has only 4 colours available on a 330x200 screen

· Massive base of high-quality business software

· Games achiesse is to many 8-bit thing,



IBM PC-compathies are the only micros worth considering for

There are literally handreds of different PC models on the mar-

het, starting from CHG (the Sinclair PCSSS) and ranging up to

WHICH COMPUTER?

" Continued from previous page ASTONISHING advice from the high-street

Well this (Nintendo games console) is an 8-bit which means there's 8 bits for every character on screen - if it's a 16bit it means that all the edges disc, between of onscreen characters are rounded off because it's heice as defined supply to

Are there any plans to have anything more educational on the

How many colours does it have?
I think there's 128 - just basic stades of your basic colours.

Well, if you already have a colour TV you can just say run the video or

It all depends on what you want to use it for - the software is far more. Wy good

Of course... It's like busing a car, you can buy a Fond Escort or a EMM — in their of you can guess which is going to last longest—at the end of the day they both take you from A to B. But in 5 years time BM will all be going in an White.

No, they're very reliable - but you get what you pay for. On the whole -

K is an expression of memory usually expressed as RMM - K will usually

Would you recommend a PCW for a child?

It's limited because cassettes for business systems aren't that readily

Well, we don't know too much about it - it's just on the market - it's

No, it has to be run onto a monitor - there are the right connections to

NEW COMPUTER EXPRESS + 19 NOVEMBER 1988





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kind of programs, and whether new programs

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ATARI SY	*****		****	****	****	***	****	***	*****	*****			***
ANNOA	*****	•••••	•••	***	***	****	***		*****	*****	***		
PC COMPATIBLES		***	*****	*****		*****						*****	

The other options REVEALED! The best all-round buy

It's clear from the last five pages that no one computer will be

Although most buvers will want to out for one of the six models featured on the previous pages, there are other very good buys for people with specific needs.

PORTABLE COMPUTING Look hard at the Sinclair Z88 lap held, or (if you can afford it) one of the **Toshiba** lap-held PCs.

WORD-PROCESSING

If this is your main requirement you should consider an Amstrad PCW. The 8256 model

Acom's overpriced BBC micro still dominates

DESK-TOP

Although there is good software now leader is still the Apple Macintosh. Buy a colour Apple Mac 2, a PostScript laser

TECHNO JUNKIES

If your only desire is to have state-of-the-art Agern Archimedes, There's very little soft. right for everyone Nevertheless we'll stick our necks out and say that for a typical

who's wide

range

uses for the machine - including games, graphics, music and word-processing - the best value

computer to go for this Christmas is ... the Atari ST! Prices start at £299 for the basic

model, although to get the most out of the machine you should double that budget and include a colour monitor

It's a great-value machine and

Amiga in some respects, it is less quirky and, in Britain at any rate. better supported.

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The next ZX Microfair is to held on December 10th at the usual Hoticultural Halls, London, see us there as usual on stalls 91,92 and 93.

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and update your real stock market portfolios with a

password secured database, so it's no surprise this one will be out on the PC as well as Amiga, ST, CM and CPC Sci di fans are also catered for with two releases av-

able in February: Nightdawn, out on Amiga, ST and C64

remote explorer through alien worlds, whilst The Para

nois Complex, due on Amigs, St. OSA, CPC and Spec

For lighter relief, Magic Bytes have set for February release Tom and Jerry: a two-player came based on the

curtoon series. in which you get to play the part of the

controlled underworld

'S GERMAN CONNEC

announced they are to and distribute seven titles to be released over the next six months by software produces Micro-Partner on its Magic is perhaps the West Gercompany's best disappointing sales after a two mouth



most likely to make . USS John Young (Amiga)

Available on Amiga, ST and C64 in April, USS John Young puts you in command of a US many destroyer embesiled in a future Superpower conflict over the Mid-(So East. The tasks awaiting you include convoy escort, sub hunting, shore bombardment, reacus missions and direct confrontations with Iranian and Soviet forces. Persian Gulf Informs, due out in June on the same for mats, appears to take the same scenario further. Here you're the only survivor of an anti-terror squad dis-

patched to free-5 hostages and defuse a 1-megaton

nuclear bomb about to blow on an oil rio. In this platutes to complete the job - a dauxting mission, since there are bordes of terrorists that need to be disposed of Mall Street offers conflict of a different kind taking you into the heatle and bustle of bioh finance, where quick reactions and fearless risk-taking are also heavily in demand. Interestingly, the game allows you to file



player crazy golf sim featuring teleporter fields. Both will be available on Amigs, ST and C64 with Tom and





. Torrific land (house prices are mushrooming) Active Distribution's recent signing of the mark

rights for a range of titles due out on Amiga, ST, PC and to them picking up the rights to Coktol's Walt Disney Scence - Jungle Rook, Hopefully out by Christmas, this accode adventure will allow you to take the rale of a number of the film's characters. Other well known titles in the pipeline include Peter

The seventies' soursway sery similer doesn't feature scene after scene of monitor-misting maybem, though -19 NOVEMBER 1988 - NEW COMPUTER EXPRESS -

ENTERTAINMENT



. Singuide - "It Tim while he's still

there's only a couple of screens which could be described ax or French. Most of the action takes place in the appropriately steamy climes of Brazil, where Emanuelle has gone missing. You have to go in and get her - a mission believed to feature futious wrist-intensive joyetick action

First off the line though is Freedom, for Amiga, ST, PC and CPC. a strategic role-playing war game set in an Under The Sea; a sub-equatic arcade adventure where characteristics.



its beels and on the same formats is 20,000 Leagues each other and the outless to build your own opponent's

the name of the came this time it's Captain Nemo, against. Finally, there's Terrific Island, a survival simply to stay alive in the face of monatrous odds. Active are also

releasing Sinoside, from later this month on the Amina. This is a world

championship besing sim your way through 50 copo-

nd on the Home Front

OUTLAND Pandora





Up against the Titan Battlester on your ST

. Rambo rampages his way through the C64

RAMBO III Ocean

XENON Melbourne House

. Looking for laser cannons in Speccy Xenor

Based on Tolketa's classic, this

WAR IN MIDDLE

AND THE BLASTER-TRONS



ENTERTAINMENT

W elcome to the New Computer Express games section, the liveliest, most up-to-the-minute reviews for miles. You'll notice that our reviews are laid out differently from run-of-the-mill computer mags. We

Only games of particular ment their very own box, together with a flash to say what's so good about them.

BATTLE OF THE BIG SEGA COIN OPS

Sega's Afterbarrer has held the title of the best 1 STREET

THUNDERBLADE

The other major Segu arcade conversion for CLASSY fully offering better variety

When Domark bought the rights to the James shore Out Run all ready to go. The two teamed up,

in this superfast fantasy YCU are James Bond. And



Once you've learnt how to handle the boat, using

ENTERTAINMENT

for you - it's simply a question of driving through footironically, it's best to drive as fast as possible to save

Live and Let Die shifts very fast indeed. Far faster than

Also due out on CPC, Spectrum and C64, Live and Let

If you're after a fast, action-packed game and fancy a

0000

Andy Storer

Double Dragon is probably the most famous kickem-to-death-em-up out of the bunch on Christmas pro-releases. One of the most popular arcade games in '87. Mastertronic has just completed

DD on the PC, a computer not exactly renowned for its arcade quality audio-visuals



e GAMEPLAY

But you're organizably so hard you can not only take The final confrontation is with Big Willy himself, who

provides a mean challenge, especially as he's got a gun When using the two-player option, the other player will

artin Bryant's twelve-year history of chess

Surprisingly, PC 50 manages to produce a reasonably

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Nearly a year since the outstanding arcade game



Xor has been out for some time on the off major formats, but the Arniga version has cer



. Without the hype, what are we left with?

in a word it's pathetic. The audio-visual quality is

Out Run on the Sego console is still the only half-

Screen 11: Razer Edge, You've blocked in - unless you can work out some way to deto

Rik Haynes

EXPLODING FIST +

Feelering First a is another birk-senum name - in fact it's not a million miles from System Three's golden-oldie beat-em-up - International Karate +.

Using different joystick combinations you can produce

The bones round appears after a few combat rounds

e GRAPHICS AND SOUND



The sprites, soundtracks and sound effects perfor

ther the success of Driller and Dark Side on the

· GAMEPLAY

EXCLUSIVE

O EXPRESS VERDICT

Amazing! An adventure where you don't have to

trot around picking up treasure, battling gobline



EF+ is very much a case of 'seenit, boughtit, playedit -

CORRUPTION

Incentive to succeed

Incentive is one of the games software industry's great survivors, having been around for, oh, at least five years. Tadley is fronted by 29-yearold Ian Andrew who talked to us about the company's remarkable achievement

Total Eclipse is your third release based his project for a long time now, hasn't it?

with Freescape.

How did the original idea come about?

What's interesting about Pressure is that go under things, around and over them -

That was the exact intention; to create a

Now, tell me this you had the first Freescape game Driller which got rave mas charts by games like Out Run. How do at the moment? Do you resent the market-

You're already talking to manufacturees

You don't think that the pace of Freescape

Who's the sechnical menins behind this? Is

Commodore, IRM, Amstrad

incentive are now one of a select band of small surviving independent software

the bigger companies can't do - so we're

Tell me about the interactive training. Are

I see, so it's using Freescape to give a com-



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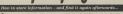
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The jargon relating to handling files 'Isading Goordet', rather than the outer with Werdstar', Similarly, 'save' means putting something away For example, "loading" software is used in the sense of loading a pro-With the introduction of WIMP gram into the computer in real operating systems, lasd has been loaded, not the pregram, But every-

document? Again, the jurgos makes WIMP systems use screens, or parment to be worked on. So you don't open a document, you open a wisdocument away, you simply close the a folder, but how do you 'open' a

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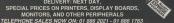
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70 DATA 234.169.40.141.18.208.234.234 BD DATA 162.0.188 117.192.136 208 253 120 DATA 208.234.162.0.188.117.192.136 170 DATA 09.08.07.01.01.07.06.09.00 LEGREM COLOR DATA ***

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